

## 405 nm OEM Laser for High-Accuracy Raman Spectroscopy

TOPTICA Photonics Introduces Enhanced TopMode 405 Single-Frequency Laser for Robust Industrial Raman Integration

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**TOPTICA Photonics announces the redesigned TopMode 405, a single-frequency diode laser engineered for high-accuracy Raman spectroscopy in industrial OEM environments.**

“Industrial Raman systems require more than high optical performance – they demand long-term stability and seamless integration into production environments,” said Stéphane Junique, Product Manager OEM Laser at TOPTICA Photonics. “With the enhanced TopMode 405, we provide OEM partners with a stable and reliable excitation source designed for continuous operation.”



*The enhanced TopMode 405 is positioned as an industrial-grade OEM Raman laser platform.*

In Raman spectroscopy, the excitation laser directly impacts system accuracy and reproducibility. The **TopMode 405** addresses these requirements with a compact, integration-ready design and enhanced robustness, supporting stable operation in continuous and high-throughput industrial settings.

Operating at 405 nm with output powers of up to 100 mW, the laser enables strong Raman signal generation while remaining fully compatible with standard silicon detectors. Its single-frequency emission and narrow linewidth ensure high spectral resolution and measurement repeatability across inline applications.

### Core Positioning and Key Differentiators

The enhanced TopMode 405 is positioned as an industrial-grade OEM Raman laser platform that combines:

- Single-frequency 405 nm emission
- Excellent wavelength and power stability
- Up to 100 mW output power
- Industrial-grade robustness

With the enhanced TopMode 405, TOPTICA Photonics strengthens its portfolio of single-frequency lasers for industrial spectroscopy, supporting OEM manufacturers in building scalable, high-precision Raman systems.

### About TOPTICA

TOPTICA Photonics develops and manufactures high-end laser systems for more than 25 years. Its portfolio includes optical quantum clocks, rack-integrated laser systems, optical frequency combs, diode lasers, ultrafast fiber lasers, terahertz systems, as well as continuous-wave fiber lasers and amplifiers.

The company employs more than 600 people worldwide across seven business units and operates more than 8,000 m<sup>2</sup> of production space, generating annual revenues exceeding €140 million.

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